

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US2004/017103

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J23/68 B01J37/06 C07D301/10 B01J21/04 B01J21/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 496 470 A (SHELL INT RESEARCH) 29 July 1992 (1992-07-29) page 2, line 25 - page 5, line 21; claims; examples; tables	1-15
X	US 5 733 842 A (REMUS DONALD J ET AL) 31 March 1998 (1998-03-31) column 2, line 21 - column 5, line 13; claims; examples; tables	1-15
X	EP 1 086 743 A (NIPPON CATALYTIC CHEM IND) 28 March 2001 (2001-03-28) page 2, line 36 - page 10, line 35; claims; examples; tables	1-15
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

3 September 2004

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14/09/2004

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	EP 0 558 346 A (NIPPON CATALYTIC CHEM IND) 1 September 1993 (1993-09-01) page 3, line 25 - page 7, line 20; claims; examples; tables	1-15
X	EP 0 927 575 A (NIPPON CATALYTIC CHEM IND) 7 July 1999 (1999-07-07) page 3, line 2 - page 4, line 55; claims; examples; tables	1-15
X	US 5 248 557 A (JACOBSON HOWARD W) 28 September 1993 (1993-09-28) column 2, line 21 - column 4, line 11; claims; examples; tables	1-15
X	US 5 801 259 A (KOWALESKI RUTH MARY) 1 September 1998 (1998-09-01) column 2, line 39 - column 24, line 22; claims; tables	1-15
X	US 5 145 824 A (BUFFUM JOHN E ET AL) 8 September 1992 (1992-09-08) column 2, line 15 - column 11, line 39; claims; tables	1-15
X	US 4 428 863 A (FRY WILLIAM E) 31 January 1984 (1984-01-31) column 2, line 63 - column 4, line 31; claims; examples; tables	1-15
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X	US 4 769 358 A (KIRIKI MASA HARU ET AL) 6 September 1988 (1988-09-06) column 5, line 39 - column 13, line 15; claims; examples; tables	1-15

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